43049-0007

PTO/SB/01 (10-01)

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Att rn y Docket Numb r

DESIGN PATENT APPLICATION (37 CFR 1.63)  Declaration Submitted Piling (surcharge (37 CFR 1.16 (e)) Examiner Name  As the below named inventor, I hereby declare that:  My residence, mailing address, and clitzenship are as stated below next to my name.  I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:  RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP  PRECEDENCE DIFFERENTIATION  (If the of the Invention)  the specification of which  is attached hereto  OR  was filled on (MMVDD/YYYY)  as United States Application Number or PCT International  Application Number  and was amended on (MMVDD/YYYY)  It hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.  I because the day to discolar internation which is material to patentability as defined in 37 CFR 1.55, including for continuation-in-part applications, material information which became available between the filling date of the ordinustron-for path international filling date of the prior application and the national or PCT international filling date of the ordinustron-for path internations application on which priority is reviewed and which also identified below, by checking the box, any foreign application on which priority is reviewed and which also identified below to hypochication having a filling date to the control or or patent, inventors or plant inventors or plant inventors or plant inventors or plant or America, listed below and have also identified below, by checking the box, any foreign application on which priority is	DECLARATION FO	Till Till y 2 contention						
Declaration   Submitted   Submitted after initial   Filing (surcharge (37 CFR 1.16 (e))   Examiner Name   Filing Date   Art Unit   Examiner Name   Examiner	DESIGN		First Named Inv nto	r AWEY	AWEYA, James et al.			
Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)  As the below named inventor, I hereby declare that:  My residence, mailing address, and clitzenship are as stated below next to my name.  As the below named inventor, I hereby declare that:  My residence, mailing address, and clitzenship are as stated below next to my name.  I believe I am the original and first inventor of the subject matter which is daimed and for which a patent is sought on the invention entitled:  RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP  PRECEDENCE DIFFERENTIATION  (Title of the Invention)  the specification of which  Is attached hereto  OR  was filed on (MM/DD/YYYY)  as United States Application Number or PCT International  Application Number  and was amended on (MM/DD/YYYY)  as United States Application, including the claims, as amended by any emeriments pecifically referred to above.  I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.55, including for continuation-in-part applications, malarial information which became available between the filing date of the prior application and the national or PCT International application which designated at least one country other than the United States of America, listed below and have also identified below, by decking the box, any foreign application for patent, inventor's or plant breaders rights certificately, or any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by decking the box, any foreign application on which priority is claimed.  Prior Foreign Application  Prior Foreign Application numbers are listed on a supplemental priority data sheet PTO/SB/028 statched hereto:			COMPLETE IF KNOWN					
Declaration of Submitted after Initial Filing Surcharge (37 CPR 1.16 (e)) required)  As the below named inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:  RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP  PRECEDENCE DIFFERENTIATION  (Title of the Invention)  the specification of which  Is attached hereto  OR  was filed on (MM/DD/YYYY)  and was amended on (MM/DD/YYYY)  as United States Application Number or PCT International  Application Number  I lacknowledge the duty to disclose information which is material to patentability as defined in 37 CPR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international line did not be continuation or part applications, material information which became available between the filing date of the prior application and the national or PCT international line did not provide the continuation of PCT international line did not provide the continuation of PCT international international provides and have also identified below, by checking the box, any foreign application (or patent, inventor's or plant provided or plant, inventor's or plant plant provided or plant provided or plant plant plant provided or plant plant provided or plant plant plant plant plan	(37 CFR 1	1.63)	Application Number					
Submitted OR Submitted after initial Filing surcharge (37 CFR 1.16 (e)) required)  As the below named inventor, I hereby declare that:  My residence, mailing address, and citizenship are as stated below next to my name.  I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:  RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP  PRECEDENCE DIFFERENTIATION  (Title of the Invention)  the specification of which  I is attached hereto  OR  was filed on (MM/DD/YYYY)  as United States Application Number or PCT International  Application Number  and was amended on (MM/DD/YYYY)  It hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.  It hereby state that I have reviewed information which became available between the filing date of the continuation-in-part applications, material from matters which his material to patentability as defined in 37 CFR 1.58, including for continuation-in-part applications, material from matters which became available between the filing date of the prior application and the national or PCT international glociation.  Thereby stain foreign priority henefits under 35 U.S.C. 19(a) (c), or 36(b) of any foreign application for patent, inventor's or plant proceder's rights certificate(s), or 36(3) of any PCT international application having a filing Date of America, Istad below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant proceder's rights certificate(s), or any PCT international application having a filing Date  Prior Foreign Application  Prior Foreign Application  Prior Foreign application numbers are listed on a supplemental priority data sheet PTO/SB/028 attached hereto:	Submitted OR	Declaration	Filing Date					
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Total Delieve   arm the original and first inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled.    RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP	As the below named inventor, I hereby declare that:							
RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP PRECEDENCE DIFFERENTIATION  (Title of the Invention)  the specification of which  is attached hereto  OR  was filed on (MMVDD/YYYY)  as United States Application Number or PCT International  Application Number  and was amended on (MM/DD/YYYY)  (if applicable).  It hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.  It acknowledge the duty to disclose information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. Hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.  Prior Foreign Application  Country  Foreign Filing Date  (MM/DD/YYYY)  Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:	My residence, mailing address, and o	citizenship are as stated belo	ow next to my name.		·			
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## **DECLARATION** — Utility or Design Patent Application

Direct all correspondence to: Customer Number or Bar Code Labe			OR 🗸	Correspondence address below	
Name		,			
Address					
City		State		ZIP	
Country	ephone			Fax	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor					
Given Name James (first and middle [if any])			Family Name AWEYA or Surname		
Inventor's Aveyal.				Date 18 July 2003	
Kanata Residence: City	ON		Canada	Canadian Citizenship	
Residence: City   State   Country   Citizenship   24 Stikine Drive					
Mailing Address	r		140T 4114		
Kanata :	ON State		K2T 1H1	Country	
NAME OF SECOND INVENTOR:  A petition has been filed for this unsigned inventor					
Given Name Michel (first and middle [if any])		Family or Sun			
Inventor's Signature				18. July 200	
Plantagenet Residence: City	ON State		Canada Country	Canadian Citizenship	
865 Concession 1					
Malling Address	<u> </u>		1405 410		
Plantagenet city	ON State		K0B 1L0	Canada Country	
Additional inventors are being named on the 1_sup	plemental Additio	nai Inve	ntor(s) sheet(s) PTO	/SB/02A attached hereto.	

PTO/SB/02A (10-00)
Approved for use through 10/31/2002, OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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### **DECLARATION**

ADDITIONAL INVENTOR(S) Supplemental Sheet Page 1 of 1

Name of Additional Joint Inventor, if any:		A petition has been filed for this unsigned inventor					
Delfin Given Name			MONTUNO Family Name or Surname				
Inventor's Duffin y Months						18 July 2003	
Kanata Residence: City	ON State		1	Canada Country		Canadian Citizenship	
122 Knudson Drive Malling Address							
Mailing Address							
<sub>city</sub> Kanata	ON Sta	N ite			Cana Count		
Name of Additional Joint Inventor, if any:			A petition has been filed for this unsigned inventor				
Given Kent Name				FELSI family Name or Surname	KE .		
Inventor's Signature	-					18. July 200_	
Kanata Residence: City	ON State		Canada Country			Canadian Citizenship	
Malling Address	•						
99 Shearer Crescent Mailing Address							
Kanata city	ON State			K2L 3V6 Cana			
Name of Additional Joint Inventor, if any:  A petition has been filed for this unsigned inventor					unsigned inventor		
Given Name				ily Name urname			
Inventor's Signature	_					Date	
Residence: City	State			Country		Citizenship	
Mailing Address							
Mailing Address							
City	State	e		ZIP	Co	ountry	

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PATENT/DOCKET NO	
CUSTOMER NO	

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: 

\$ Attorney Docket No. 43049-0007

Serial No.: n/a §

Filed: Herewith § Group Art Unit: n/a

§

Title: RATE-BASED MULTI-LEVEL § Examiner: n/a

ACTIVE QUEUE MANAGEMENT

WITH DROP PRECEDENCE
DIFFERENTIATION

Commissioner for Patents Washington, D.C. 20231

# POWER OF ATTORNEY FOR PATENT APPLICATION

Nortel Networks Limited, a Canadian corporation having principal offices at:

### 2351 Boulevard Alfred-Nobel St. Laurent, Quebec H4S 2A9, Canada

the owner by assignment of the entire right, title and interest to the invention for RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT WITH DROP PRECEDENCE DIFFERENTIATION, by AWEYA, James; OUELLETTE, Michel; MONTUNO, Delfin; and FELSKE, Kent, and in and to the application for patent and an Letters Patent, whether domestic or foreign, that may issue thereon, hereby appoints the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

W. Charles Kent, Registration No. 26,135; and/or William R. Edgar, Registration No. 27,522; and/or Mitchell B. Charness, Registration No. 46,416; and/or Adrian Zahl, Registration No. 35,774.

its attorneys with full power of substitution and revocation, to prosecute all domestic and foreign patent applications, including PCT and EPO filings, relating to said invention and to transact all business connected therewith, including signing of all papers on its behalf and making alterations and amendments.

Please address all correspondence and telephone calls regarding this application to:

Mr. W. Charles Kent, of RIDOUT & MAYBEE P, whose full office address is 150 Metcalfe Street, 19<sup>th</sup> Floor, Ottawa, Ontario K2P 1P1, Canada, Telephone No. (613) 236-1995.

The undersigned is the representative for the Assignee of the entire right, title, and interest in the patent application identified above, and is authorized to act on behalf of the Assignee.

File: 43049-0007 MG:TLS:Imc

Applicant:

**Nortel Networks Limited** 

Title:

RATE-BASED MULTI-LEVEL ACTIVE QUEUE MANAGEMENT

WITH DROP PRECEDENCE DIFFERENTIATION

Serial No.:

(unknown)

Filed:

(unknown)

**Executed:** 

July 18, 2003

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### APPOINTMENT OF ASSOCIATE AGENT

The undersigned, W. Charles Kent, Registration No. 26135, and William R. Edgar, Registration No. 27522, principal attorneys and/or agents appointed to prosecute this application hereby appoint as their associate attorney and/or agent to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Lindsay McGuinness, (Registration No. 38549) Mary Steubing, (Registration No. 37946)

of Steubing McGuinness & Manaras L.L.P.30 Nagog Park, Acton, MA, 01720, United States of America.

Address all telephone calls to Ms. Lindsay McGuinness at (978) 264-6664 x304 and address all correspondence to Steubing McGuinness & Manaras L.L.P. at the above-captioned address.

W. Charles Kent

WCKen

William<sup>\</sup>R. Edgar